

THE UNIVERD SHAVES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Nioneer Hi-Bred International, Inc.

MICCONS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT WARRETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY TEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE UGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE VE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'94Y01'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hant Inviety Frotection Office to be affixed at the City of Washington, D.C. this thirtieth day of July, in the year two thousand and eight.

Den zu

Commissioner Plant Variety Protection Office Agricultural Marketing Service Edward 7: Schaffer

Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and da	ite on all reprodu	ctions			Form Approved - OMB No. 0581-0055				
U.S. DEPARTMEN AGRICULTURAL M	MARKETING SER	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.						
SCIENCE AND TECHNOLOGY - PL APPLICATION FOR PLANT VAR (Instructions and information coll	RIETY PROTECTI	ON CERTIFICATE		pplication is required in order to determine if a plant variety protection certificate is to be issued 7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).					
1. NAME OF OWNER			2. TEMPORARY DESIGNATION OR 3. VARIETY NAME						
Pioneer Hi-Bred Internation	al, Inc.		XB40K07						
4. ADDRESS (Street and No., or R.F.D. No., City,		de, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY				
7300 N.W. 62nd Avenue			(515) 253-2197		NUMBER				
P.O. Box 1004			6. FAX (include area code)	#	200800100				
Johnston, IA 50131-1004			(515) 253-2288	FILING	FILING DATE				
 IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, essociation) 		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	1,	129/2008				
Corporate		Iowa	May 6, 1926						
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	SERVE IN THIS APPLICATION. (First)	person listed will receive all papers)	E	FILING AND EXAMINATION FEES:				
Paul D. Koelling		Cassie J. Prochask	a	s	DATE 1/29/08				
7300 N.W. 62nd Avenue		7250 N.W. 62nd A	venue	R E C	CERTIFICATION FEE:				
P.O. Box 1004		P.O. Box 552		C E	: 768.00				
Johnston, IA 50131-1004		Johnston, IA 501	31-1000	E D	DATE 7/10/08				
11. TELEPHONE (Include area code)	12. FAX (includ	le area code)	13. E-MAIL						
(515) 253-2197	(515)	253-2288	paul.koelling@pi	oneer.	com				
14. CROP KIND (Common Name)	16. FAMILY N	AME (Botanical)	18. DOES THE VARIETY CONT	AIN ANY T	RANSGENES? (OPTIONAL)				
Soybean	Fabace	eae	YES NO		HORAL ADVIS DESCRIPTION AND PER SOR THE				
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VAI	RIETY A FIRST GENERATION HYBRI			USDA-APHIS REFERENCE NUMBER FOR THE ATE THE GENETICALLY MODIFIED PLANT FOR				
Glycine max	YES	XNO	COMMERICALIZATION.						
19. CHÉCK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse)	CHMENT SUBM	ΠTED			EED OF THIS VARIETY BE SOLD AS A CLASS 33(a) of the Plant Veriety Protection Act)				
a. X Exhibit A. Origin and Breeding History	of the Variety		YES (If "yes", answe						
b. X Exhibit B. Statement of Distinctness					EED OF THIS VARIETY BE LIMITED AS TO				
c. X Exhibit C. Objective Description of Vari	etv		YES NO						
d. X Exhibit D. Additional Description of the)		FOU	NDATION REGISTERED CERTIFIED				
e. X Exhibit E. Statement of the Basis of the			22, DOES THE OWNER SPECIF NUMBER OF GENERATION	THAT S	EED OF THIS VARIETY BE LIMITED AS TO				
f. X Exhibit F. Declaration Regarding Depo		•	YES NO						
g. X Voucher Sample (3,000 viable untreate that tissue culture will be deposited and	ed seeds or, for tu	ber propagated varieties, verification approved public repository)	IF YES, SPECIFY THE NUM	BER 1,2,3,	etc. FOR EACH CLASS.				
g. X Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Variety Protect	ade payable to "T		☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED (if additional explanation is necessary, please use the space indicated on the reverse.)						
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?			24. IS THE VARIETY OR ANY C						
YES V NO			YES NO						
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTA	FIRST SALE, DISI NCES <i>. (Pl</i> e <i>es</i> e <i>u</i>	POSITION, TRANSFER, OR USE Ise space indicated on reverse.)	IF YES, PLEASE GIVE COUN REFERENCE NUMBER. (PK	IF YES, PLEASE GIVE COUNTRY DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use spece indicated on reverse.)					
25. The owners declare that a viable sample of basi for a tuber propagated variety a tissue culture w				accordance	with such regulations as may be applicable, or				
	his sexually repro	duced or tuber propagated plant variety		istinct, unif	orm, and stable as required in Section 42, and is				
Owner(s) is (are) informed that false represental		•	inc						
SIGNATURE OF OWNER	nom nerett (Str)60								
Revel D. Kalley	n u`a		SIGNATURE OF OWNER						
NAME (Please print or type)	1		NAME (Please print or type)						
Paul D. Koelling									
CAPACITY OR TITLE Process Improvement Manager	DATE	125/2008	CAPACITY OR TITLE	DATE					
	10/	1							

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment, or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONπNUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
 U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety.

According to the Peperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gethering and mainteining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, termital status, parental status, religion, sexual orientation, genetic information, political basis apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 94Y01

Variety 94Y01 evolved from a cross made in the winter of 1999/2000 in Puerto Rico with the following parentage:

Parentage = T00038H005/XB37C02

T00038H005 = A3834/93B82 XB37C02 = 93B82/P00048 P00048 = A3431/94B01*

*94B01 is a commercial variety with the Roundup Ready® (40-3-2) gene

Variety 94Y01 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 94Y01 was grown in a plant row yield trial in Illinois in the summer of 2002. Subsequently, 94Y01 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, soybean cyst nematode resistance, Phytophthora resistance, and resistance to Roundup® branded herbicides; variety 94Y01 was assigned a commercial number.

The purification block was grown in the summer of 2005 in Iowa and 64 sub-lines were harvested. A half (0.50) acre increase was grown in Argentina in 2005/2006. Twenty-one (21) acres of parent seed stock (foundation seed equivalent) were grown in the summer of 2006. Approximately 726 acres of seed stock and production seed were grown in the summer of 2007.

Exhibit B. Statement of Distinctness

Soybean Variety 94Y01

Variety 94Y01 is most similar to Pioneer variety 93M82. Both varieties have purple flowers, light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to *Phytophthora megasperma* as governed by the Rps1k gene, resistance to race 3 of the soybean cyst nematode, and resistance to Roundup branded herbicides. However, 94Y01 and 93M82 have different isozyme profiles. See table below for differences.

		GPI
Variety	MDH	1
94Y01	В	1
93M82	M	2

Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

C AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME			
Pioneer Hi-Bred International, Inc.	XB40K07	9 4 Y01			
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Co	ountry)	FOR OFFICIAL USE ONLY			
7300 N.W. 62nd Avenue, P.O. Box 1004,	Johnston, IA, 50131-1004	#20080010			
PLEASE READ ALL INSTRUCTIONS CAREFULLY	•				
	9) when number is either 99 or less or 9 or less respectively.				
	arative data should be determined from varieties entered in the sa nine plant colors; designate system used				
all questions for your variety; lack of response may d					
A. MORPHOLOGY:		.			
Seed Shape:	ı – "				
1 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios ≤ 1.2)				
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2)				
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 =	Brown 4 = Black 5 = Other (Please specify)	,			
2 3.3311 0	2 Diagram of Chief (Fleade speeding)				
Seed Coat Luster:					
1 1 = Dull 2 = Shiny					
Seed Size:					
* 14.2 grams/100 seeds (rounded	to the nearest decimal (00.0))				
Hilum Color:					
* 6 1 = Buff 2 = Yellow 3 = 7 = Other (Please specify)	Brown 4 = Gray 5 = Imperfect Black	6 = Black			

A. MORPHOLOGY: (continued)

Cotyledon Color:

Seed Protein Peroxidase Activity:

Hypocotyl Color:

* 3 1 = Green

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

3 1 = Lanceolate 2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

2 1 = White 2 = Purple

3 = White with a Purple Throat

Pod Color:

2 | 1 = Tan

2 = Brown

3 = Black

Pubescence Color:

* 3 1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

* 3 1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

7 1 = 000 6 = |||11 = VIII

2 = 007 = IV12 = 1

3 = 0V = 813 = X

4 = 19 = VI

14 = XI

5 = 1110 = VII15 = XII

Maturity Subgroup:

- Please enter a value from 0-9
- B. DISEASE REACTIONS: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- 0 | Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- * 1 Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- 1 Brown Spot (Septoria glycines Hemmi)
- Frogeye Leaf Spot (Cercospora sojina Hara) 0
- 0 race 1
- 0 race 3
- 0 race 5
- race 7
- race 2 race 4 race 6
- - Important: Any other races tested (Please specify)

В.	DISEASE	REACTIONS:	(continued)

	0	Target Spo	t (Co	rynespora d	assiic	ola (Berk. & Cu	rt.) V	Vei)					
	0	Downy Mile	dew (Peronspora	trifolic	orum var. manc	hurid	ca (Naum.) Syd	d. Ex	(Gäum)			
	0	Powdery M	lildew	(Microspha	aera di	ffusa Cke. & Pl	c)						
	0	Brown Ster	n Roi	t (<i>Phialopho</i>	ra gre	gata (Allington	& Cl	namberlain) W.	Gai	ms.)			
*	0	Brown Stem Rot (<i>Phialophora gregata</i> (Allington & Chamberlain) W. Gams.) Stem Canker (<i>Diaporthe phaseolorum</i> (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)											
*.	1	Pod and St	em E	Blight (<i>Diapo</i>	rthe pl	naseolorum (Cl	ке. 8	، Ell.) (Sacc. va	ar. so	<i>ojae</i> (Lehman) We	hm.)	
	0	Purple See	d Sta	in (<i>Cercosp</i>	ora kil	kuchii (T. Matsı	ı. & .	Tomoyasu) Ga	rder	ner)			٠
	1	Rhizoctonia	a Roc	ot Rot (<i>Rhizo</i>	octonia	solani Kühn)							
	0	Asian Soyb	ean I	Rust (<i>Phak</i> o	spora	pachyrhizi Syc	w. (a.k.a. <i>Phakosp</i>	ora	pachyrhizia S	ydw.))	
	0	Other (Pleas	se specify) _									
pe	cify	the gene(s)	codir	ng for reaction	on to F	hytophthora R	oot F	Rot.					1
	0	Rps1 (Williams)	0	Rps1-c (Arksoy)	2	Rps1-k (Kingwa)	0	Rps3-b (Pl 172.901)	0	<i>Rps</i> 5 (Pl 91.160)	0	Rps? (Nezumisaya, (OX939, OX940
	0	Rps1-a (Mukden)	0	R <i>ps1-d</i> (PI 103.09	91)	Rps2 (CNS)	0	Rps3-c (Pl 340.046)	0	Rps6 (Altona)			
	0	Rps1-b (Sanga)	0	<i>Rps1-e</i> (Pl 172.90	₀₇₎ 0	Rps3-a (Pl 171.442)	0	<i>Rps4</i> (Pl 86.050)	0	Rps7 (Harosoy)			
Ph	ytop	hthora Root	Rot (Phytophtho	ra soja	æ (Kaufmann 8	& Ge	erdemann))					
		race 1		race 9	0		0	race 25	0	race 32	0	race 39	
	0	race 2	0	ר	0	race 18	0	race 26	0	race 33	0	race 40	
	0	race 3	0	race 11	0	race 19	0	race 27	0	race 34	0	race 41	
	0	race 4	0	race 12	0	race 20	0	race 28	0	race 35	0	race 42	
	2	race 5	0	race 13	0	race 21	0	race 29	0	race 36	0	race 43	8
	0	race 6	0	race 14	0	race 22	0	race 30	0	race 37	0	race 44	
	2	race 7	0	race 15	0	race 23	0	race 31	0	race 38	0	race 45	
	0	race 8	0	гасе 16	0	race 24	0	Important: An	y ot	her races tes	ted (F	Please specify)	ı
	1	Bud Blight (Toba	cco Pingen	st Miruu	e)							
		Yellow Mosa				•		•					
*		Cowpea Mo	•			•							
[Pod Mottle (•		•							
*		Seed Mottle											
			(Suy	beal Hillosa	ic viiu	5)							
Vel	mate	ode											
Зоу	bea	an Cyst Nem	atode	e (Heterodei	ra glyc	ines Ichinohe)							
	0	race 1	<u>0</u> r	ace 4	0 ra	ce 9							
	n	race 2	\mathbf{n}	ace 5	0 2	no 1/1				*			

0 Important: Any other races tested (Please specify)

В.	DI	SEASE REACTIONS: (continued)
	0	Lance Nematode (Hoplolaimus columbus Sher)
	0	Southern Root Knot Nematode (Meliodogyne incognita (Kofoid & White) Chitwood)
	0	Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)
	0	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)
٠.	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)
	0	Important: Other Nematodes tested (Please specify)
<u> </u>	PH	IYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	1	Iron Chlorosis on Calcareous Soil
	0	Phosphorus 0 Important: Other (Please specify)
	0	Boron
	0	Aluminum
	0	Salt
	0	Drought
D.	INS	SECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
•		
		Mexican Bean Beetle (Epilachna varivestis Mulsant)
		Soybean Aphid (Aphis glycines Matsamura)
	一	Potato Leaf Hopper (Empoasca fabae (Harris))
	0	Important: Other (Please specify)
E.	HE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Metribuzin
	0	Bentazone
	1	Sulfonylurea
*	2	Glyphosate
	1	Glufosinate
	0	Pendimethalin
-	0	Important: Other (Please specify)

F. TRANSGENIC COMPOSITION:

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

✓ Yes □ No

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney U-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								
Cited Most Similar Variety Year/Location 1								
Year/Location 2 LSD .05								

I. COMMENTS:

Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

Number 2:

94Y01 is rated as susceptible to iron chlorosis on calcareous soils. On a scale of one to nine with one being fully susceptible, and nine being complete resistance; 94Y01 is rated three.

Number 3:

94Y01 is rated as having antibiosis resistance to soybean aphids*. On a scale of one to nine with one being susceptible, and nine being resistance; 94Y01 is rated seven.

*Antibiosis is measured using a growth chamber screening technique that compares the rate of aphid reproduction on different varieties. Antibiosis resistance reduces the rate of growth, survival and reproduction of soybean aphids that feed on soybean plants.

Exhibit D. Additional Description of the Variety

Soybean Variety 94Y01

In Exhibit C we have identified variety 94Y01 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 94Y01 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 94Y01 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 94Y01 is an early Group 4 variety. If Group 4 varieties are divided into tenths, the relative maturity of 94Y01 is 4.0.

REPRODUCE LOCALLY. Include form number and edition date on al	reproductions. F	ORM APPROVED - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to detect certificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	121). The information is held		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER XB40K07	94Y01		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	6. FAX (Include eree code)			
7300 N.W. 62nd Avenue	(515) 253-2197	(515) 253-2288		
P.O. Box 1004	7. PVPO NUMBER			
Johnston, IA 50131-1004	200800100			
8. Does the applicant own all rights to the variety? Mark an "X" in the	l. e appropriate block. If no, please explai	in. YES NO		
9. Is the applicant (individual or company) a U.S. national or a U.S. b				
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:		
a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. Nations NO If no, give name of count			
YES 11. Additional explanation on ownership (Trace ownership from origin	NO If no, give name of countries not breeder to current owner. Use the re	•		
		A Commence of the Commence of		
PLEASE NOTE:				
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:			
If the rights to the variety are owned by the original breeder, that penaltional of a country which affords similar protection to nationals of	erson must be a U.S. national, national of the U.S. for the same genus and specie	of a UPOV member country, or es.		
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a o genus and species.	ved the original breeder(s), the company country which affords similar protection to	must be U.S. based, owned by o nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0056. Including the time for reviewing the instructions, searching existing data sources, gathering a				
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and as marilal or family status, political baliets, parantal status, or protected genetic information. (No communication of program information (Brailie, large print, audiolape, etc.) should contact Us	ctivities on the basis of race, color, national origin, ger of all probiblied bases apply to all programs). Person	nder, religion, ege, disability, sexual orientation, s with disabilities who require ellemetive means for		
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-v 720-5964 (voice and TDD), USDA is an equal opportunity provide and employer.				

ST-470-E (04-03) designed by the Plant Variety Protection Office using Word 2000

According to the Peperwork Reduction Act of 1995, an egency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 mirrutes per response, including the time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, maritel or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a compleint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD) USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY . PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (\$) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB40K07			
	P.O. Box 1004 Johnston, IA 50131-1004	varie 94Y01			
NAME OF OWNER REPRESENTATIVE (S) Paul D. Koelling Cassie J. Prochaska	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	FOR OFFICIAL USE ONLY			
	P.O. Box 1004	PVPO NUMBER			
	Johnston, IA 50131-1004	#200800100			

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Daul D. Koelling Signature January 25, 2008